

## CLAIMS

I Claim:

1. A lighting system for illuminating a large outdoor playing field with zero candela intensity at an angle of ninety degrees above nadir, comprising:

a plurality of illumination assemblies placed in predetermined locations about the playing field, each illumination assembly comprising a support and a luminaire coupled to the support;

wherein each luminaire achieves full cut-off; and

wherein each luminaire is coupled to a support in a way that the plurality of illumination assemblies, when placed in the predetermined locations, achieve full cut-off.

2. The lighting system of claim 1 wherein the outdoor playing field comprises at least a football field.

3. The lighting system of claim 1 wherein the outdoor playing field comprises at least a soccer field.

4. The lighting system of claim 1 wherein the outdoor playing field comprises at least a ball field.

5. The lighting system of claim 1 wherein the illumination assemblies comprise a plurality of luminaries.

6. The lighting system of claim 5 wherein a first luminaire is mounted behind a second luminaire.

7. The lighting system of claim 1 wherein the luminaire is mounted at a height of at least 40 feet.

8. The lighting system of claim 1 wherein the lighting system is placed about a periphery of the playing field.

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9. A method of enabling the reduction of light pollution in an outdoor environment for enabling compliance with local ordinances, comprising:

mounting at least one full cut-off luminaire about an outdoor area to be lighted, the full cut-off luminaire to light the outdoor area; and

removing all non full cut-off luminaries that once lit the outdoor area from the outdoor area to be lighted.

10. The method of claim 9 further comprising turning on a full cut-off luminaire.

11. The method of claim 9 wherein the outdoor area is the playing surface of a large sporting field.

12. The method of claim 9 further comprising the act of automatically registering with a local government to show compliance with a local light ordinance.

13. The method of claim 9 further comprising the act of automatically canvassing a local community to show that installation of full cut-off lighting will dramatically reduce spill light.

14. An illumination assembly for illuminating a large outdoor playing field with zero candela intensity at an angle of ninety degrees above nadir, comprising:

a support-receiving portion;

a luminaire coupled to the support; and

wherein each luminaire is coupled to the support in a way that the illumination assembly achieves full cut-off.

15. The illumination assembly of claim 14 wherein each luminaire achieves full cut-off.

16. The illumination assembly of claim 14 wherein the luminaire comprises an optical assembly having a main candle power distribution in about the sixty-degree plane.

17. The illumination assembly of claim 15 wherein the luminaire does not emit light above the eighty-five degree plane.

18. The illumination assembly of claim 15 wherein the luminaire maintains a main beam intensity in the sixty-degree plain.

19. The illumination assembly of claim 15 wherein the luminaire is coupled to the support at an angle above the horizontal plane.

20. The illumination assembly of claim 14 further comprising a second luminaire coupled to the support.

21. The illumination assembly of claim 17 wherein the illumination assembly comprises a plurality of luminaries.

22. The illumination assembly of claim 14 wherein the luminaire further comprises at least one light-blocking shield.